

SPOSATO- DECOMMISSIONING COST ESTIMATE- 400 KW AC GM						
Item Description	Unit	Quantity	Unit Cost	Cost	Extended Comments	
1 Equipment Removal						
1.1 Utility Disconnect from Grid	lump sum	1.00	\$1,000	\$1,000	Includes removal of wire, poles, transformers, appurtenances, with all equipment retained by utility.	
1.2 Removal/Salvage of Inverters	lump sum	1.00	\$500	\$500		
1.3 Removal of Conduit Runs	crew days	1.00	\$2,110	\$2,110		
				\$0		Laborers (10) \$20/hr. = \$2,110 per day
1.4 Removal of Solar Panels	crew days	2.00	\$2,110	\$4,220		Service truck \$26.77/hr, Loader/Backhoe \$37.00/hr.
				\$0		Laborers (10) \$20/hr. = \$2,110 per day
1.5 Remove Racks/Cable Trays and Haul Steel and Aluminum Away for Salvage	crew days	2.00	\$2,110	\$4,220	Service truck \$26.77/hr, Loader/Backhoe \$37.00/hr. Laborers (10) \$20/hr. = \$2,110 per day	
1.6 Salvage/Dispose of Solar Panels	ton	35.00	\$25	\$875	Assume hauled off with salvage at least of aluminum frames and landfill disposal of remaining materials as non-hazardous solid waste (Crystalline panels). 1400 panels @ 50 lbs. each	
Equipment Removal				\$12,925		
1.7 Salvage of Racks and Cable Trays	ton	16.88	(\$200)	\$-3,375	Assumes 67500 lbs of racking equipment per 1/2 MW	
1.8 Salvage - Wire/Other	lump sum	1.00	(\$1,479)	\$-1,479	67500 lbs = 33.75 Tons x \$200 per ton = \$ (only accounted for 50% of salvage) 29000 lf of Copper Wire X 30 lb per 1000 lf = 870 lbs of copper wire x \$1.70/lb scrap value = \$31,875. (50% used)	
Salvage Value				\$-4,854		
2 Site Restoration						
2.1 Labor	day	2.0	\$640	\$1,840	Assume 2 man crew, \$20/hr, 16 hours plus equipment \$1200 in equipment	
2.2 Seeding, Fertilizer	acres	1.5	\$1,000	\$1,500	Applies to the minimal areas disturbed by the decommissioning work.	
2.4 Final As-Built Survey Map	lump sum	1	\$1,200	\$1,200	Assume revision of existing CAD drawing showing the final restored site.	
Site Restoration				\$4,540		
3 Engineering Oversight and QA/QC						
3.1 Resident Engineer/Inspector and	days	1	\$800	\$800	Assumes 1 day per week for inspections and oversight	
3.2 Final Engineer's Report (RI PE)	lump sum	1	\$1,200	\$1,500		
Engineering				\$2,300		
Decommissioning Cost excluding Salvage				\$19,765		
Decommissioning Cost after Salvage				\$14,911		
After 20 years with 2.5% inflation				\$24,433		

Total for Site Work Services as Described Below:

1. CAT 345 with Pulverizer and Operator: 1.5 ACRES/DAY at \$3,133.52/DAY= \$2,089.01/ACRE
 2. 2 Laborers Un-bolting and Cutting Wires: 0.75 ACRES/DAY at \$1,224.32/DAY= \$1,632.43/ACRE
 3. 2 Laborers Removing/ Stacking Panels: 0.75 ACRES/DAY at \$1,224.32/DAY= \$1,632.43/ACRE
 4. Track Skidsteer with Operator Assisting: 0.75 ACRES/DAY at \$1,005.52/DAY= \$1,340.69/ACRE
- Total: \$6,694.56/ACRE
Panel Area of 1.4 ACRES X \$6,694.56/ACRE=Grand Total: \$9,372.38